

LAPTEV, I.D.; TERYAYEVA, A.P.; SAPIL'NIKOV, N.G.; CHENTSOV, R.Ye. [deceased]; SEPP, Ya.P.; SUVOROVA, L.I.; ZASLAVSKAYA, T.I.; GREKOVA, A.I.; TONKOVICH, V.S.; IBRAGIMOV, A.I.; KOTLYUBA, T.Ya.; KURYLEV, V.M.; KOVALEVSKIY, G.T.; KALNINS, A.A. [Kalnins, A.]; SIDOROVA, M.I.; MALISHAUSKAS, V.I. [Malisauskas,V.]; PASECHNIK, P.P.; BUGAREVICH, V.S.; KARNAUKHOVA, Ye.I.; AREF'YEV, T.I.; KAZAKOV, I.G.; GUMOVSKIY, I.A.; SININ, S.I., red.; LINKUNA, N.I., red.; TSITKO, I.A., red.; VOLKOVA, V.V., tekhn. red.

[Material incentives for developing the collective farm production] Material'noe stimulirovanie razvitiia kolkhoznogo proizvodstva. Moskva, Izd-vo AN SSSR, 1963. 326 p.

(MIRA 16:12)

1. Akademiya nauk SSSR. Institut ekonomiki. 2. Institut ekonomiki AN SSSR (for Laptev, Teryayeva, Suvorova, Zaslavskaya, Sidorova, Karnaukhova). 3. Sredneaziatskiy gosudarstvennyy universitet (for Sapil'nikov). 4. Komi filial AN SSSR (for Chentsov). 5. Institut ekonomiki AN Latvianskoy SSR (for Sepp). 6. Bashkir'skiy filial AN SSSR (for Grekova). 7. Institut ekonomiki AN Beloruskoy SSR (for Tonkovich, Kovalevskiy). 8. Institut ekonomiki AN Uzbekskoy SSR (for Ibragimov)

(Continued on next card)

LAPTEV, I.D.--- (continued). Card 2.

9. Institut ekonomiki AN Ukr.SSR (for Kotsyuba, Pasechnik).  
10. Beloruskiy institut ekonomiki i organizatsii sel'sko-khozyaystvennogo proizvodstva (for Bugarevich). 11. Vsesoyuznyy institut sakhariny sverkly (for Aref'yev). 12. Institut ekonomiki AN Kirgizskoy SSR (for Kazakov). 13. Rabotnik TSentral'nogo komiteta Kommunisticheskoy partii Moldavskoy SSR (for Guminovskiy). 14. Kuybyshevskiy planovyy institut (for Kurylev).  
(Collective farms--Income distribution)

LAPTEV, I.D., starshiy nauchnyy sotr.; BUYANOV, P.S., starshiy nauchnyy sotr.; KASSIROV, L.N., starshiy nauchnyy sotr.; TERYAYEVA, A.P., starshiy nauchnyy sotr.; SUVOROVA, L.I., starshiy nauchnyy sotr.; SIDOROVA, M.I., starshiy nauchnyy sotr.; SEMIN, S.I., starshiy nauchnyy sotr.; Prinimali uchastiye: ARKHIPOV, A.I., mladshiy nauchnyy sotr.; VAZYULYA, P.F., mladshiy nauchnyy sotr.; KARLYUF, I.Ya., mladshiy nauchnyy sotr.; KALLOVA, T.N., mladshiy nauchnyy sotr.; ROMANOVSKAYA, L.S., mladshiy nauchnyy sotr.; CHISTOV, G.N., mladshiy nauchnyy sotr.; POTAPOV, Kh.Ye., red.; GERASIMOVA, Ye.S., tekhn. red.

[Communal funds of collective farms and the distribution of collective farm income] Obshchestvennye fondy kolkhozov i raspredelenie kolkhoznnykh dokhodov. Moskva, Izd-vo ekon. lit-ry, 1961. 386 p. (MIRA 15:3)

1. Akademiya nauk SSSR. Institut ekonomiki. 2. Sektor ekonomiki sel'skogo khozyaystva Instituta ekonomiki Akademii nauk SSSR (for Laptev, Buyanov, Kassirov, Teryayeva, Suvorova, Sidorova, Semin).  
(Collective farms--Income distribution)

KARNAUKHOVA, Yel.

Important economic incentive for improving stockbreeding.  
Vop. ekon. no.7:63-71 Jl '61. (MIRA 14:7)  
(Stock and stockbreeding--Labor productivity)

KARNAUKHOVA, Ye.I., zasluzhennyi vrach RSFSR (Perm')

Beginning of medical education for women in Russia. Sov. zdrav.  
21 no.1:48-52 '62. (MIRA 15:2)  
(WOMEN AS PHYSICIANS) (MEDICINE--STUDY AND TEACHING)

ALLAKHVERDYAN, D.A., prof.; AMINOV, A.M., doktor ekon. nauk; AGLAS, M.S., prof.; D'YACHENKO, V.V., dots.; ZLOBIN, I.D., prof.; KADYSHEV, L.A., dots.; KARNAUKHOVA, Ye.S., prof.; KOTOV, G.G., prof.; LEVITANUS, I.M., dots.; LIVSHITS, A.L., dots.; LYAPIN, A.P., prof.; MAKAROVA, M.F., prof.; MASLOV, P.P., prof.; SONIN, M.Ya., doktor ekon.nauk; SOROKIN, G.M.; STRUMILIN, S.G., akademik; TUMANOVA, L.V., dots.; TUROVTSEV, V.I., dots.; FIGURNOV, P.K., prof.; MOKHOVA, N.I., dots., red.; SHCHERBAKOVA, V.V., dots., red.; SHVEYTSER, Ye.K., red.; MURASHOVA, V.A., tekhn. red.

[The economics of socialism] Politicheskaya ekonomiya sotsializma. Izd.2., perer. Moskva, Gos.izd-vo "Vysshiaia shkola," 1962. 614 p. (MIRA 16:3)

1. Chlen-korrespondent Akademii nauk SSSR (for Sorokin).  
(Economics) (Communism)

KARNAUKHOVA, E. S.

KARNAUKHOVA, E. S. Kolkhoznoe proizvodstvo v gody Ctechestvenrci voiny. Moskva,  
Sel'khozgiz, 1947. 142 p. (Institut ekonomiki Akademii Nauk SSSR.) DA  
DLC: HD1491.R9K28

SO: LC, Soviet Geography, Part I, 1951, Uncl.

KARNAUKHOVA, E. S.

KARNAUKHOVA, E. S. Izmeneniiia v geografii osnovnykh otrazlei sej'skogo khoziaistva  
v SSSR za tridtsat' let. (Voprosy geografii. Sb. shestoi, 1947. p. 101-132.)  
DLC: G23.V6

SO: LC, Soviet Geography, Part I, 1951, Uncl.

KARNAUKHOVA, Ye.

Hidden potentialities for increasing the productivity of agricultural labor in the U.S.S.R. Sots. trud 6 no. 1:23-31 Ja '61.

(MIRA 14:1)  
(Agriculture--Labor productivity)

KARNAUKHOVA, Ye.I., zasluzhennyj vrach RSFSR (Perm')

Origin of medical education for women in Russia. Sov.zdrav. 19 no.5:  
37-41 '60.

(MIRA 13:9)

(MEDICINE--STUDYING AND TEACHING)  
(PHYSICIANS, WOMEN)

KARNAUKHOVA, Ye. S.

12G32

USSR/Distribution of Agriculture 4301.0200 Feb 1947

"Changes in the Distribution of Branches and Cultures  
of Agriculture in the USSR during 1913 - 1940," Ye.  
S. Karnaukhova, Candidate in Economic Sciences, 14 pp

"Iz Ak Nauk Otdel Ekonomiki Prava" No 2

A general survey of changes that took place in distribution of grain cultures, livestock, fodder raising and beet sugar in new areas. Constant reference to Lenin's foresight in suggesting certain developments which subsequently were realized. Scanty production data given in percentages.

LC

12G32

KARNAUKHOVA, Ye. S.

Agriculture

Distribution of agriculture in Russia during the period of capitalism, 1860-1914.  
Moskva, Izd-vo Akademii nauk SSSR, 1951.

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

KARNAUKOVA, YE.S.

Agriculture

(Organization of work and wages on the cattle-breeding collective farms) Moskva, Gos.  
izd-vo selkhoz lit-ry, 1951

Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified.

APPENDIX A, Pg 5.

J. R. Woodward (Dr. of Law), "The Possibility of the ADA and FBI to Prevent  
the Trial of the 'Terrorists,'" Was Published, in "CIA," February 1970.

KARNAUKHOVA, Ye. S., doktor ekonom.nauk, red.; KOTOV, G.G., red.;  
OBOLENSKIY, K.P., red.; ZASLAVSKAYA, T.I., red.; FREYDMAN, S.M.,  
red.; FEDOTOVA, A.F., tekhn.red.

[Labor productivity in socialist agriculture] Proizvoditel'nost'  
truda v sotsialisticheskem sel'skom khoziasistve; voprosy metodo-  
logii i metodiki. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1959. 422 p.  
(MIRA 13:3)

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AN SSSR (for Karnaughova).

(Agriculture--Labor productivity)

VERZHER, V.G., red.; KARNAUKHOVA, Ye.S., red.; POTAPOV, Kh.Ye., red.;  
PONOMAREVA, A.A., tekhn.red.

[Calculating production costs on collective farms] Voprosy  
ischisleniya sebestoimosti produktov v kolkhozakh. Pod red.  
V.G.Benzhera i E.S.Karnaukhovo. Moskva, Gosplanizdat, 1959.  
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(Collective farms--Costs)

KARNAUKHOVA, Ye.

Content and structure of a course on the economics of socialist  
agriculture. Vop. ekon. no.10:109-122.0 '60.  
(MIRA 13:9)  
(Agriculture--Economic aspects)

KARNAUKHOVA, Ye.S., doktor ekonom. nauk, red.; KOZLOV, M.I., kand. ekon. nauk, red.; GAVRILOV, V.I., red.; OBOLENSKIY, K.P., kand. ekon. nauk; ZAVERNYAYEVA, L.V., red.; PONOMAREVA, A.A., tekhn. red.

[Possibilities and ways for increasing labor productivity in the agriculture of the U.S.S.R.] Rezervy i puti povyshenija proizvoditel'nosti truda v sel'skom khoziaistve SSSR; doklady i vystupleniya. Red. kollegija: E.S.Karnaughova i dr. Moskva, Ekonomizdat, 1962. 490 p. (MIRA 15:5)

1. Soveshchaniye po voprosam vyyavleniya rezervov i putej povysheniya proizvoditel'nosti truda v sotsialisticheskem sel'skom khozyaystve, 1960. 2. Institut ekonomiki Akademii nauk SSSR (for Karnaughova, Kozlov). 3. Nauchno-issledovatel'skiy ekonomicheskiy institut Gosudarstvennogo nauchno-ekonomiceskogo soveta Soveta Ministrov SSSR (for Obolenskiy).

(Agriculture)

KARNAUKHOVA, Ye.S., doktor ekon. nauk, red.; KOZLOV, M.I., kand. ekon. nauk, red. GAVRILOV, V.I., red.; OBOLENSKIY, K.P., kand. ekon. nauk, red.; ZAVERNYAYEVA, L.V., red.; PONOMAREVA, A.A., tekhn. red.

[Resources and ways for increasing labor productivity in agriculture] Rezervy i puti povysheniia proizvoditel'nosti truda v sel'skom khoziaistve SSSR. Red.koll.: E.S.Karnaikhova i dr. Moskva, Ekonomizdat, 1962. 490 p. (MIRA 16:10)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiciki sel'skogo khozyaystva. 2. Institut ekonomiki AN SSSR (for Karnaikhova, Kozlov). 3. Nauchno-issledovatel'skiy ekonomicheskiy institut Gosudarstvennogo nauchno-ekonomicheskogo soveta Soveta Ministrov SSSR (for Obolenskiy).

(Agriculture--Labor productivity)

KARNAUKHOVA, Ye.S., doktor ekonom.-nauk; BRAGINSKIY, B.I.. doktor ekonom. nauk; MASHEENKOV, V.F.; POZDNYAKOV, V.N., kand. ekonom. nauk; ALTAYSKIY, I.P., kandidat ekonomiceskikh nauk; MADATYAN, A.I., nauchnyy sotr.; OBOLENSKIY, K.P., red.; PANIN, N.S., red.; DMITRASHKO, E.I., mladshiy red.; PONOMAREVA, A.A., tekhn. red.

[Methods for measuring, analyzing and planning labor productivity on collective and state farms] Metody izmereniia, analiza i planirovaniia proizvoditel'nosti truda v kolkhozakh i sovkhozakh. Moskva, Ekonomizdat, 1963. 211 p. (MIRA 16:7)

1. Institut ekonomiki AN SSSR (for Madatyam).  
(Agriculture--Labor productivity)

KARNAUKHOVA, Ye.S., red.; KOZLOV, M.I., red.

[Ways to increase labor productivity in the agriculture  
of the U.S.S.R.] Puti povysheniia proizvoditel'nosti  
truda v sel'skom khoziaistve SSSR. Moskva, Nauka, 1964.  
(MIRA 18:2)  
390 p.

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VASILENKO, V.P., kand.ekon. nauk; PODOL'IEV, V.I., kand. ekon.  
nauk; KONVALOV, D.A., nauchn. str.; KANEV, G.V.,  
aspirant; KARNAUKHOVA, Ye.S., doktor ekon. nauk, otv.red.;  
BELOV, V.K., red.

[Potentialities for reducing costs in the agriculture of  
the Komi A.S.S.R.] Rezervy sotsializatsii zatrud v sel's-  
skom khoziaistve Komi ASSR. Moscow, Nauka, 1985. 178 p.  
(MIRA 18:10)

1. Akademiya nauk SSSR, k.s.t. filial, Syktyvkar.

KARNAUKHOVA, Ye.V.

Soil zoning in Soschka District. Pochvovedenie no.12: 16-32 0 '64.  
(MIRA 18:2)

i. Severo-Zapadnoy nauchno-issledovatel'skiy institut soi'iskogo  
khozyaystva.

KARNAUKHOVA, Zinaida Mironovna; YEL'KIN, Grigoriy Andreyevich; TITKOV,  
G.G., red.; MIKHAYLOVA, L.G., red.izd-va; BACHURINA, A.M.,  
tekhn.red.

[Album of patterns for sawing logs into lumber] Al'bom postavov  
dlia raspilovki breven na stroitel'nye pilomaterialy. Moskva,  
Goslesbumizdat, 1960. 162 p.  
(Sawmills)  
(MIRA 14:4)

KARNAUSHENKO, G. A.

Chem

Chem Abt v47

1-25-54

Glass, Clay Products

Characteristics and service of improved electromelted  
zirconia mullite refractory. N. V. Solomin, N. M. Galdina,  
A. A. Galstyan, M. B. Sulkhanov, and G. A. Karnaushenko.  
*Steklo i Keram.* 10, No. 3, 25-33 (1953).—Tests were made  
in glass-melting furnaces of ZrO<sub>2</sub>-mullite refractories contg.  
(a) not over 5.43% fluxes and (b) 6.48%. Stability of (a)  
was 20-30% higher and the corrosion more uniform.

B. Z. Kamich

AF  
1-14-54

ALEKSEYEV, F.K.; ANDRIYUTS, G.L.; ARSENT'YEV, A.I.; ASTAF'YEV, Yu.P.;  
BEVZ, N.D.; BEREZOVSKIY, A.I.; GENERALOV, G.S.;  
DOROSHENKO, V.I.; YESHCHEŃKO, A.A.; ZAPARA, S.A.; KALINICHENKO, V.F.;  
KARNAUSHENKO, I.K.; KIKOVKA, Ye.I.; KOBOZEV, V.N.; KUPIN, V.Ye.;  
LOTOUS, V.K.; LYAKHOV, N.I.; MALYUTA, D.I.; METS, Yu.S.; OVDENKO,  
B.K.; OKSANICH, I.F.; PANOV, V.A.; POVZNER, Z.B.; PODORVANOV, A.Z.;  
POLISHCHUK, A.K.; POLYAKOV, V.G.; POTAPOV, A.I.; SAVITSKIY, I.I.;  
SERBIN, V.I.; SERGEYEV, N.N.; SOVETOV, G.A.; STATKEVICH, A.A.;  
TERESHCHENKO, A.A.; TITOV, O.S.; FEDIN, A.F.; KHOMYAKOV, N.P.;  
SHEYKO, V.G.; SHEKUN, O.G.; SESTAKOV, M.M.; SHTAN'KO, V.I.

Practice of construction and exploitation of open pits of Krivoy  
Rog Basin mining and ore dressing combines. Gor. zhur. no.6:  
8-56 Je '63. (MIRA 16:7)

(Krivoy Rog Basin--Strip mining)

KARNAUSHENKO, I.K., kand.tekhn.nauk; ARSENT'YEV, A.I.; OVGDENKO, B.K.

Experience in the rapid deepening of the strip mine at the New  
Krivoy Rog Mining and Ore Dressing Combine in opening and developing  
the level. Mat. i gornorud. prom. no. 2:73-76 Mr-Ap '64.  
(MIRA 17:9)

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E193/E135

AUTHORS: Kapustina, M.I., Candidate of Technical Sciences;  
Karnaushenko, N.A., Engineer; Savchenko, A.M.,  
Engineer; and Kuz'min, V.I., Engineer.

TITLE: Determination of thermo-physical properties of a  
titanium alloy 48-OT-3 (48-OT-3)

PERIODICAL: Tsvetnyye metally, 1961, No.8, pp. 73-79

TEXT: Knowledge of the thermo-physical properties of metals and alloys is necessary in selecting both the rational heating schedules during various fabrication processes and the optimum operating conditions for components subjected to variations in the ambient temperature. The object of the present investigation was to determine the thermal conductivity ( $\lambda$ , kcal/m h  $^{\circ}$ C), specific heat (C, kcal/kg  $^{\circ}$ C), and the thermal diffusivity (a, mm $^2$ /h) ( $a = \lambda/C\gamma$ , where  $\gamma$  is the density of the material) of the 48-OT-3 Ti-base alloy. This alloy contained 3.5-4.0% Al, not more than 0.1% nitrogen, 0.1% oxygen and traces of hydrogen. The measurements were carried out at temperatures ranging from 100 to 1025  $^{\circ}$ C. The magnitude of a and C only was determined;

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## Determination of thermo-physical ...

$\lambda$  was calculated from these data ( $\lambda = aC\gamma$ ), the appropriate correction being applied for the thermal expansion of the alloy. The bulk of the paper is devoted to a detailed description of the experimental technique and equipment used. A technique developed by N.Yu. Tayts and E.M. Gol'dfarb (Ref.2: Zavodskaya laboratoriya, 1950, No.3) and based on a method proposed by G.M. Kondrat'yev (Ref.1: Teplovyye izmeneniya (book "Thermal Changes"), Mashgiz, 1957) was used by the present authors for the determination of  $a$ . The method consists in solving the differential equation of the thermal diffusivity for a slab heated at a constant rate. If the temperature gradient between the surface and the axis of a cylindrical slab at the initial moment is  $\Delta t_0$ , then

$$\frac{\Delta t}{v \tau} = \frac{R^2}{4a \tau} - \left( \frac{R^2}{a \tau} - \frac{4f_a t_0}{v \tau} \right) \Phi \left( \frac{a \tau}{R^2} \right) \quad (1)$$

where:  $v$  is the constant heating rate ( $^{\circ}\text{C}/\text{h}$ );  $\tau$  is the time (h);  $a$  is the thermal diffusivity ( $\text{mm}^2/\text{h}$ ); and  $\Phi(a\tau/R^2)$  is the function of the Fourier criterion. In practice, this method consists in measuring the temperature on the surface and in the

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Determination of thermo-physical ....

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interior of a specimen (cylindrical in the present case), heated at a constant rate in a specially designed furnace with low thermal inertia. From the measured temperature gradient at the beginning and end of each heating interval, and from the known heating rate,  $\Delta t_0/vt$  and  $\Delta t/vt$  are calculated, after which the average value of  $\alpha$  is determined. The advantage of this method consists in that the formulae employed do not depend on the external heat transfer conditions. The method used in the present investigation for determining  $C$  is based on the principle of heat balance and has been developed by "Gintsvetmet". It is best described with reference to Fig.4, which shows the experimental assembly comprising the following items: 1, the material tested; 2 and 3, screening vessel and its lid; 4, electric furnace; 5, furnace cover; 6, portable potentiometer; 7, resistance box; 8, step-down transformer; 9, mirror galvanometer;  $T_0$ , thermocouple measuring the temperature at the specimen axis;  $T_c$  and  $T_{\bar{m}}$ , differential thermocouple housed in the screening vessel wall. A constant quantity of heat per unit time is supplied to the specimen, and the temperature  $t_0$  at the specimen axis is measured as well as the temperature gradient,  $\Delta t$ , across the screening vessel wall.

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Determination of thermo-physical ....

When the temperature at the specimen axis is raised from zero to  $t^{\circ}\text{C}$ , the heat balance is described by:

$$\left( F \frac{\lambda}{s} \rho \right) \Delta t_1 z_1 = q_{ak} + i_1 w_1 \quad (3)$$

where:  $F$  is the surface area ( $\text{m}^2$ ) of the screening vessel through which heat is conducted;  $\lambda$  is the thermal conductivity coefficient of the screening vessel material ( $\text{cal}/\text{m}^2 \text{ h } ^\circ\text{C}$ );  $s$  is the screening vessel wall thickness ( $\text{m}$ );  $\rho$  is a correction factor taking into account the fact that heat flows not through a flat surface but through a cylindrical wall and a lid;  $\Delta t_1$  is the average temperature gradient across the screening vessel wall ( $^\circ\text{C}$ );  $z_1$  is the time (h) required to raise the temperature in the centre of the crucible from zero to  $t^{\circ}\text{C}$ ;  $q_{ak}$  is the heat (kcal) accumulated in the screening vessel in the time  $z_1$ ;  $i_1$  is the heat content (kcal/kg) of the specimen at  $t^{\circ}\text{C}$ ; and  $w_1$  is the weight of the specimen (kg). The experiment is repeated three times: twice on a standard material with a known heat content, specimens of different weight ( $w_1$  and  $w_2$ ) being used each time, and

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once on the material studied, the weight of the test piece in this case being  $w_3$ . Three heat balance equations are obtained in this manner for each of the temperature intervals selected, and from these the formula for the heat content of the material studied is derived in the form of:

$$i_3 = \frac{i_2 w_2 - i_1 w_1}{w_3} \left( \frac{\Delta t_3 z_3 - \Delta t_1 z_1}{t_2 z_2 - t_1 z_1} + \frac{i_1 w_1}{w_3} \right) \quad (4)$$

Since it was found that the temperature-dependence of heat content of copper was not linear, nickel was used as the standard material in the present investigation. The results of the measurements of thermal diffusivity of the 48-OT-3 alloy are given in Table 1, under the following headings: 1) alloy temperature, °C; 2)  $a$ ,  $\text{m}^2/\text{h}$ . The results of the specific heat measurements are tabulated and also reproduced graphically in Fig. 6, where the specific heat  $C$  ( $\text{kcal}/\text{kg} \text{ °C}$ ) is plotted against the temperature ( $^{\circ}\text{C}$ ), curve 1 showing the actual  $C$  at a given temperature, and curve 2 showing the average  $C$  for any  $20 \text{ °C}$  to  $t_o$  temperature interval. Finally,

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Determination of thermo-physical ....

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the data on thermal conductivity, calculated from  $\lambda = ac\gamma$ , are given in Table 2 under the following headings: 1) temperature, °C; 2)  $\lambda$ , kcal/m h °C. The investigation was directed by Doctor of Technical Sciences D.I. Starchenko.

There are 6 figures, 3 tables and 3 Soviet references.

ASSOCIATION: Zhdanovskiy metallurgicheskiy institut  
(Zhdanov Metallurgical Institute)

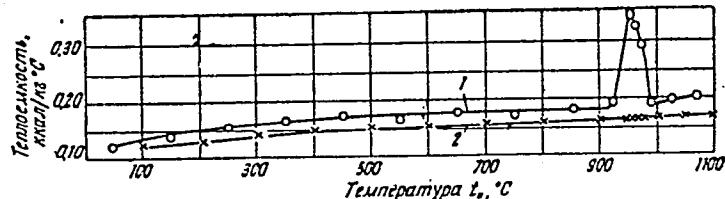


Fig.6

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ACC NR: AT6032435

SOURCE CODE: UR/3133/66/000/009/0130/0133

AUTHOR: Karnaushenko, N. N.

ORG: Marine Hydrographic Institute, AN UkrSSR (Morskoy gidrograficheskiy institut  
AN UkrSSR)

TITLE: Preliminary results of a study of motions of small-scale inhomogeneities in  
the lower ionosphere at the coastal line of the Black Sea

SOURCE: AN UkrSSR. Mezhdunovostvenny geofizicheskiy komitet. Informatsionnyy  
byulleten', no. 9, 1966. Geofizika i astronomiya, 130-133

TOPIC TAGS: ionosphere, E layer, F layer, seasonal variation, ionospheric drift,  
sea coast

ABSTRACT: Drifts of small-scale inhomogeneities in the ionosphere layers E, E<sub>g</sub>, and F were measured in 1964 in the region of coastal thermal contrasts by impulse sounding. The standard frequency of 2.2 Mc and for the E layer as well as frequencies close to critical values were used. Harmonic analysis of the results indicated seasonal and local drifts in the lower layers of the ionosphere and regularity of north-east and north-west transport in both E and E<sub>g</sub> during summer and winter, respectively. Seasonal regularity is less developed in layer F and the diurnal component of drifts is prevailing. The data were also analyzed by a similarity method. Orig. art. has: 2 figures.

SUB CODE: 04/ SUBM DATE: none/ ORIG REF: 006/ OTH REF: 004

Card 1/1

RYCHKOV, Yu.G.; KARNAUSHENKO, N.N.

Measurement of deep currents in the Black Sea by means of  
an ultrasonic buoy of neutral buoyancy. Dokl. AN SSSR 141  
no.1:74-76 N '61. (DRA 14/11)

1. Morskoy gidrofizicheskiy Institut AN SSSR. Predstavlene  
akademikom V.V. Shuleykinym.  
(Black Sea - Deep sea sounding)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000720810014-8

RECORDED BY: [redacted]

Central Department of Strategic Services - Inter-American  
Planning Commission, Inc., Attn: Part 3 Committee (Liaison  
([redacted])

RECORDED BY: [redacted] For maintaining current files on  
[redacted] (Liaison)

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CIA-RDP86-00513R000720810014-8"

GOLUBTSOV, L.A.; GOLUBTSOVA, S.P.; TERLETSKIY, O.I.; KARNAUSHENKO, S.G.;  
SREBNAYA, L.D.

Anti.fog light filters for automobile headlights. Stek. i ker.  
19 no.8:19-20 Ag '62. (MIRA 15:9)  
(Light filters) (Motor vehicles--Lighting)

KARNAUSHENKO, S.M., direktor.

Inattention of a type casting plant. Poligr. proiz. 4:14 Ap '53.  
(MLRA 6:6)

1. Tipografiya No. 4, gorod Kamen' Altayskogo kraya.  
(Type and type founding)

KARNAVAK, G.G.

Control of infectious skin diseases in Vulkaneshty District.  
Zdravookhranenie 2 no.5:16 S-O '59. (MIRA 13:4)

1. Fel'dsher kozhno-venerologicheskogo kabineta Vulkaneshtskogo  
rayona (glavnnyy vrach rayona A.A. Grinberg).  
(VULKANESHTY DISTRICT--SKIN--DISEASES)

KARNAVIN, G.I., kapitan 3-go rangaa

Commanding officers of submarines are organizers and trainers. More  
sbor. 47 no.3:45-50 Mr 164. (MIRA 18:2)

KARNAYEV, M.Z.; POGA, R.I., konstruktor

Efficiency proposals increase labor productivity. Elek. i tepl.  
tiaga. 4 no.6:24-25 Je '60. (MIRA 13:8)

1. Glavnnyy konstruktor Astrakhanskogo teplovozoremontnogo zavoda  
(for Karnayev).  
(Diesel locomotives--Technological innovations)

KARNAYEV, N.A.; LEVIN, A.I.; KOTOVSKAYA, N.L.

Photoelectrocolorimetric determination of trivalent chromium  
in industrial solutions. Zav.lab. 28 no.5:547-548 '62.  
(MIRA 15:6)

1. Ural'skiy politekhnicheskiy institut imeni S.M.Kirova.  
(Chromium--Analysis) (Colorimetry)

LEVIN, A.I.; KARNADEV, N.A.

Electrochemical oxidation of trivalent chromium in industrial  
dichromate liquors. Khim.prom. no.9:642-644 S '62. (MIRA 15:11)  
(Dichromates) (Oxidation, Electrolytic)

KARNAEVA, A.V.

3

USSR.

The bitumen from shale of the Godovsk region. N. M. Karavayev, I. M. Vener, and A. V. Karnaeva. *Trudy DML Gor'kogo, Izobrazeniye Akad. Nauk S.S.R.*, 2, 235-05 (1950). The bitumen obtained from Godovsk shale is a high-mol. material contg. phenols, ketones, and pyridines. The bitumen reacts with  $\text{AlCl}_3$  to form alkali-sol. products which contain phenols. Acid hydrolysis yields low-mol. pterenols (av. compn.,  $\text{C}_{12}\text{H}_{10}\text{O}$ ) and pyridine bases. Oxidation with alk.  $\text{KMnO}_4$  yields only fatty acids. In spite of the presence of OH groups in the bitumen, only insignificant amounts of  $\text{H}_2\text{O}$  are formed on thermal decomprn., indicating the absence of alc. groups. The O of the bitumen is present in the form of  $\text{CO}_2\text{H}$ ,  $\text{CO}_2$ , and OH groups or in forms not as yet established. J. Rovtar Leach

KARHAYEVA, A.V.  
LANIN, V.A.; PRONINA, M.V.; KARHAYEVA, A.V.

Analysis of the chemical composition of the hydrocarbon portion of  
intermediate fractions of Baltic Sea region shale tars. Trudy IGI  
no.5:127-143 '55.  
(Baltic Sea region--Tar) (Hydrocarbons)

(MLRA 8:11)

VASIL'YEVA, N.N.; KRAVCHENKO, A.T.; GAVRILOV, V.I.; MEDVEVA, N.N.; LEVENBUK, I.S.; KARNAYEVA, F.M.

Study of the infective and oncogenic activity of the SV<sub>40</sub> virus.  
Preliminary report. Vop. virus. 9 no.2322-227 Nr.45 '64.

(MIRA 17:12)

Z. Kontrolyuyy institut imeni Tarasovicha, Minsk.

KARNEVICHÉVA, L. V.

Parchment paper from chemically refined kraft pulp.  
L. V. Karnevichéva (2nd Paper Plant, Leningrad), *Burzash.*  
*Prem. 30, No. 10, 23(1955).*—Kraft pulp, 6.3-7.2° Birkman,  
0.5% ash, 8046-8700 m. breaking length, 1230-1840  
double folds, 88.2-8.5%  $\alpha$ -cellulose, 1.22-1.33 Cu no., and  
viscosity of 189 millipoises (mp.) (cuprammonium soln.)  
was chemically refined by treatment with 8% NaOH (based  
on bone-dry fiber wt.), 90°, and 18% consistency, washed,  
bleached at pH 10, 38°, 3% consistency, 3% consumption of  
active Cl, washed, and acidified (0.1% H<sub>2</sub>SO<sub>4</sub>, based on bone-  
dry fiber wt.), and washed to neutral, to give a pulp with  
83.8-8.9%  $\alpha$ -cellulose, a viscosity of 127 mp., 0.34% ash,  
and a Cu no. of 0.3. A satisfactory parchment paper was  
prep'd. by beating rag stock (50% of parchment paper fur-  
nish) at 2.3-2.4% consistency to 28-32° Schopper-Riegler,  
adding the chemically refined, bleached kraft, and beating  
at 3.8-4% consistency to 40-3° S.R. J. L. Keay

KARNEVICH, G.V.

PA 23/49T2

USSR/Academy of Sciences  
Biography

Nov 48

"Additions of Active Members and Corresponding  
Members to the Staff of the Ukrainian Academy of  
Sciences," G. V. Karnenko, Learned Secy, Presidium  
of Acad Sci Ukrainian SSR, 3 $\frac{1}{2}$  pp

"Priroda" No 11

Twenty-five new active members and 28 corresponding  
members were incorporated into subject Academy in  
1948. Gives biographical data on the active members.

23/49T2

KARENKO, M. KARENKO, M. K.

USSR/Medicine - Bacteria, Action  
Medicine - Microbiology

Nov/Dec 48

"Dehydrogenation of Certain Organic Substrates With Attenuated Cl. Welchii Holland," G. M. Frenkel', V. V. Lipshits, M. K. Karenko, Inst of Microbial Environ Hygobiology, Acad Sci USSR, Kiev, 9<sup>1</sup> p.

"Mikrobiologiya" Vol XVII, No 6

Cells of Cl. Welchii, attenuated by heating to sublethal temperature, lose their dehydrogenating activity for carbohydrates, certain acids, and lecithin. They retain it for ascorbic acid and certain amino acids. The attenuated forms may regain their ability to dehydrogenate certain carbohydrates by adapting themselves to media in which hydrogen transfer occurs readily (media with low oxidation-reduction potential). Gives composition of culture medium for growing cells of Cl. Welchii attenuated by heating.

Submitted 16 Jun 48

PA 24/49T46

KARNEYEV, A.I.

V.V. Gaganova's road to success. Tokat. prom. 19 no.9:49-50  
S '59. (MIRA 12:12)

- 1. Starshiy inzhener otdela truda i zarplaty Upravleniya tekstil'-noy promyshlennosti Kalininskogo sovnarkhoza.  
(Efficiency, Industrial) (Textile industry)

KARNEYEV, A. I.

Nine months of work under new conditions. Khim.volok. no.1;  
46-48 '60.  
(MIRA 13:5)

1. Kalininskiy sovnarkhoz.  
(Kalinin--Textile fibers, Synthetic)

KARNEYEV, A.I.

Remarkable initiative of knitting machine operators.  
Tekst. prom. 20 no. 11:85-86 N '60. (MIRA 13:12)  
(Vyshniy Volochev--Knit goods industry--Labor productivity)



KARNEYEV, I. E.

Azalea

Culture of the azalea. Biul. Glav. bot. sada, No. 10, 1951.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

KARNEYEV, I.Ye.

KONSTANTINOV, N.N.; KARNEYEV, I.Ye.

Results of growing black pepper. Biul.Glav.bot.sada no.16:26-32 '53.  
(MLRA 7:4)

1. Glavnnyy botanicheskiy sad Akademii nauk SSSR. (Pepper)

KARNEYEV, I.Ye.

AUTHOR: Griner, B.M. (Moscow) SOV-26-50-8-46/51

TITLE: On the Care of Plants Indoors (O vospitanii rasteniy v komnatakh)

PERIODICAL: Priroda, 1958, Nr 8, pp 122-123 (USSR)

ABSTRACT: This is review of the book "Kul'tura oranzhereyno-komnatnykh rasteniy" (The Culture of Greenhouse and Indoor Plants) by I.Ye. Karneyev, published by the Sel'khozgiz publishing house in 1957, 558 pp.

1. Plants--Growth--USSR

Card 1/1

KARNEYEV, L. I.

USSR/Engineering - Electrical Engineering, Jul 51

Generators

"Limit of Dynamic Stability for a Generator With  
Excitation Regulator," V. I. Gorushkin, L. I.  
Karneyev

"Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 7,  
pp 996-1003

Gives approx evaluation of possible increase of  
dynamic stability limit for synchronous generator  
by regulation of exciting current. For existing  
transmissions of elec power at 220 kv, stability  
limit may be increased by 8% at expense of im-  
proving system of excitation. Use of special

205T13

USSR/Engineering - Electrical Engineering, Jul 51  
Generators (Contd)

regulators of excitation may increase dynamic  
stability limit by 14% for long-distance trans-  
mission of elec power at 400 kv. Submitted by Acad  
A. V. Vinter 27 Oct 50.

205T13

PA 66144

JSSR/Geophysics - Irrigational  
Flooding

Jun 52

"Estuarial Irrigation Under Conditions of Saratov Oblast," M.D. Karneyev, Engr

"Gidrotekh i Mel'io" No 6, pp 30-35

Discusses the new technique of estuarial irrigation, which consists of gradual shallow inundation 10-30 cm in depth, which corresponds to an irrigation norm of 2,000 cu m/ha, sufficient for wetting the active layer of the soil. Cites data from Prof N.I. Usov's book, "The Soils of Saratov Oblast", 1948, on the flooding requirements of various types of soils

22TP41

(amt of water needed, rate of absorption, etc.). States optimum conditions for the new technique and its advantage over the usual method of flooding.

KARNEYEV, M. D.

22TP41

VESELOV, A.A., inzh.; KARNEYEV, N.A., inzh.; KOZLOVSKIY, L.I., inzh.

The MSK-5-5/20 mobile tower crane. Mekh. stroi. 15 no.11:22-25  
N '58. (MIRA 11:12)  
(Cranes, derricks, etc.)

KARNEYEV, N.A., inzh.; VESELOV, A.A., inzh.

Improved design of tower cranes. Nov.tekh.mont. i spets.rab. v stroi. 21  
no.3:11-15 Mr '59.  
(MIRA 12:3)

1. Tsentral'noye konstruktorskoye byuro Upravleniya mekhanizatsii  
spetsial'nykh i montazhnykh rabot Ministerstva stroitel'stva RSFSR.  
(Cranes, derricks, etc.)

KOZLOVSKIY, L.I., inzh.; KARAEYEV, N.A., inzh.

The KP-10-Z10 full-circle loading crane. Mekh.stroi. 15 no.12:  
18-20 D '58. (MIRA 11:12)  
(Cranes, derricks, etc.)

KOZLOVSKIY, L.I., inzh.; KARNEYEV, N.A., inzh.

MSK-8-20 new mobile tower crane. Stroi.i dor.mash. 6 no.8:9-12  
Ag '61. (MIRA 14:8)  
(Cranes, derricks, etc.)

VESELOV, A.A., inzh.; KARNEYEV, N.A., inzh.; KOZLOVSKIY, L.I.,  
inzh.; STEPANOV, A.I., inzh.; TUSHINAKOV, M.D., inzh.;  
SHCHEPET'YEV, A.I., inzh.; VOLNYANSKIY, A.K., glav. red.;  
SUDAKOV, G.G., zam. glav. red.; TARAN, V.D., red.;  
SEREBRENNIKOV, S.S., red.; MIKHAYLOV, K.A., red.; STAROVEROV,  
I.G., red.; VOLODIN, V.Ye., red.; NIKOLAYEVSKIY, Ye.Ya., red.

[Hoisting and conveying equipment for assembly and specialized  
operations] Podzemno-transportnoe oborudovanie dlia montazh-  
nykh i spetsial'nykh rabot. Izd.2., dop. Moskva, Stroizdat,  
1964. 679 p.  
(MIRA 18:4)

VESELOV, A.A., inzh.; KARNEYEV, N.A., inzh.; KOZLOVSKIY, L.I., inzh.;  
STEPANOV, A.I., inzh.; TUSHNYAKOV, M.D., inzh.; SHCHEPET'YEV,  
A.I., inzh.; VDOVENKO, Z.I., red. izd-va; YUDINA, L.A., red.  
izd-va; KASIMOV, D.Ya., tekhn. red.

[Hoisting and conveying equipment for assembly and specialized  
operations] Pod'emno-transportnoe oborudovanie dlia montazhnykh  
i spetsial'nykh rabot. Pod red. A.I.Shchepet'eva. Moskva, Gos-  
stroizdat, 1962. 634 p. (MIRA 16:5)  
(Cranes, derricks, etc.) (Hoisting machinery)  
(Conveying machinery)

KARNEYEV, N.I.

Diagram for the calculation of shaft lines according to the norms of  
the U.S.S.R. register. Sudostroenie 29 no.4:32-34 Ap '63.(MIRA 16:4)  
(Shafting) (Ship registers)

KARYAGIN, A., sud'ya vsesoyuznoy kategorii; KARNEVYEV, V., zasluzhennyj  
master sporta

Sports commentator on the radio. Za rul. 17 no.5:14-15  
May '59. (MIRA 12:8)  
(Radio in sports)

KARMEYEV, V., zasluzhenny master sports

Contests between the courageous. Za rul. 18 no.9:12-13 S'60.  
(MIRA 13:10)  
(Motorcycle racing)

KARNEYEV, V., zasluzhenny master sporta

On motorcycle race tracks in Czechoslovakia. Za rul. 18  
no. 12:19 D '60. (MIRA 14:1)  
(Czechoslovakia—Motorcycle racing)

KARAEV, V., zasluzhonnnyy master sporta

Seven victories on cinder tracks. Za rul. 19 no.8:10 Ag '61.  
(MIRA 14:9)  
(Czechoslovakia--Motorcycle racing)

KARMEYEV, V., zasluzhenny master sportsa SSSR

Every club should have a cinder track. Za rul. 20 no.1:16d  
Ja '62. (MIRA 15:2)  
(Road construction)

KARNEYEV, V., zasluzhenny master sporta

Final chord. Za rul. 20 no.5:30 My '62. (MIRA 16:4)

(Ufa—Motorcycle racing)

NIKIFOROV, Anatoliy Dmitriyevich, kand. tekhn. nauk, dots.;  
KARNEYEV, V.A., red.; VORONINA, R.K., tekhn. red.

[Precision and technological processes of the machining  
of metric threads] Tochnost' i tekhnologiya izgotovleniya  
metricheskikh rez'b. Moskva, Gos.izd-vo "Vysshiaia shkola,"  
1963. 179 p. (MIRA 16:7)  
(Screw cutting) (Screw thread rolling)

SHTREMEL', Georgiy Khristianovich; KARNEYEV, V.A., red.; SHCHERBAKOV, G.S., red.; VORONINA, R.K., tekhn. red.

[Load-lifting machinery] Gruzopod"emnye mashiny. Moskva,  
Vysshiaia shkola, 1963. 269 p. (MIRA 17:3)

DROBININ, A.F.; SAITOV, G.S.; TURETSKIY, Ya.Sh., inzh., retsenzent; KARNEYEV, V.A., inzh., red.; MAKAROVA, L.A., tekhn. red.

[Operator of turret lathes] Tokar' revol'vershchik. Moskva, Mashgiz, 1963. 166 p. (MIRA 17:2)

KARNEYEV, V. F.

"Experimental Method of Developing the Principal Characteristics of Universal Machine Tools." Cand Tech Sci, Moscow Machine Tool and Tool Inst imeni Stalin, Min Higher Education USSR, Moscow, 1954. (KL, No 4, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)  
SO: Sum. No. 556, 24 Jun 55

GEYLIKMAN, A.I.; KARNEYEV, V.F.; KOGANOV, I.A.; PETRUKHIN, S.S.; SEMIN, V.S.

Semiautomatic machine for manufacturing chains for the "Tula" sewing  
machines. Mashinostroitel' no.11:11-13 N '59. (MIRA 13:3)  
(Machine tools) (Sewing machines)

KARNEYEV, V.F.; KOGANOV, I.A.

Clutch with n revolutions counted by a register. Stan.1  
instr. 31 no.8:37 Ag '60. (MIRA 13:8)  
(Clutches(Machinery))

KARNEYEV, V.M.

History of the training of military surgeons in the mid 19th century.  
Vest.khir. 77 no.6:139-142 Je '56.  
(MLRA 9:8)

1. Iz Voyenno-meditsinskogo muzeya MO SSSR. Leningrad, 9, Fontanka,  
d.90, korp. 1, kv. 17.  
(MEDICINE, MILITARY AND NAVAL, history,  
in Russia (Rus))

KARAEV, YU.

Teletanks (remote control tanks). № 12.

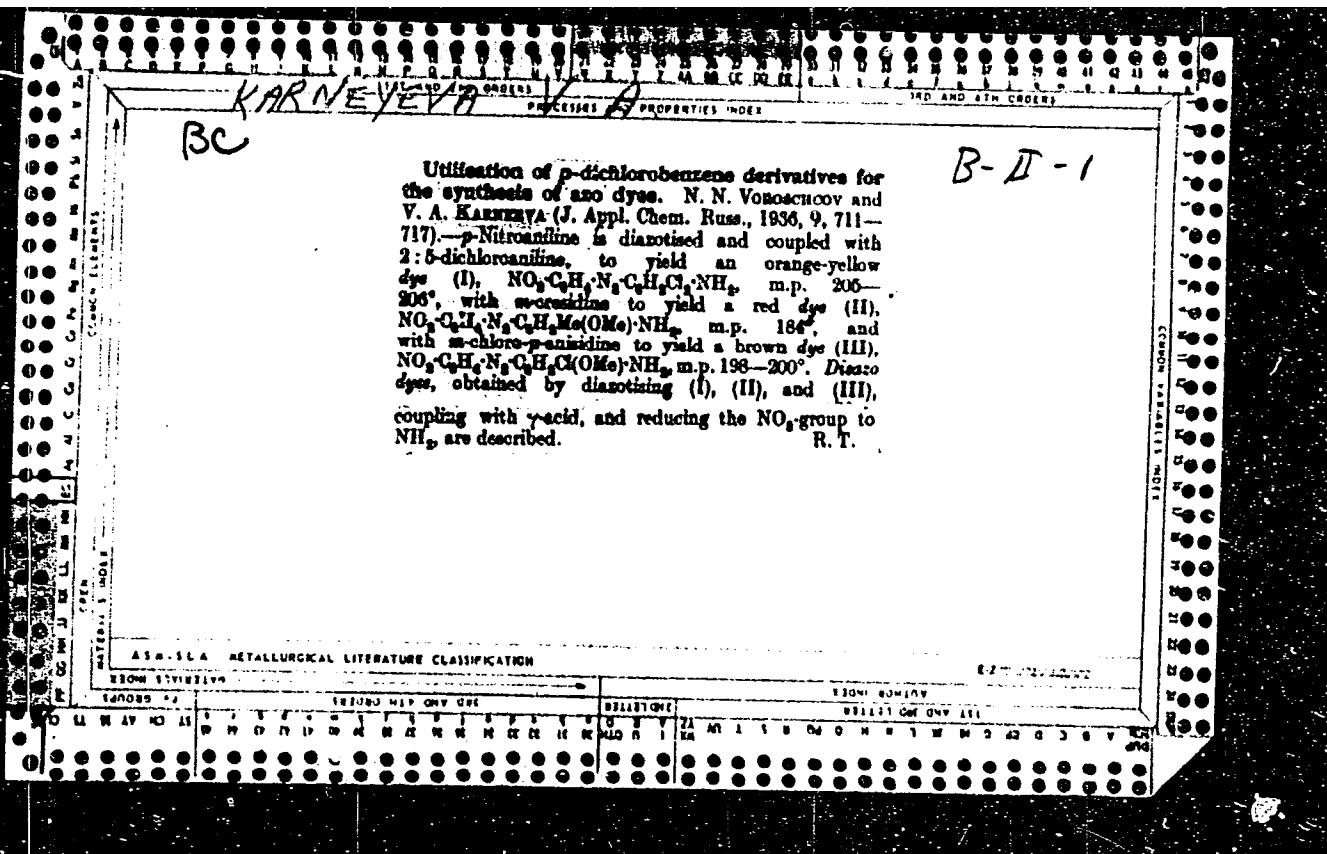
Turkist, № 12, 1948.

KARNEYEVA, N.M.

Methods for testing the quality of clothing. Standartizatsia  
28 no.1145 Ja '64. (MIRA 17:1)

KARNEYEVA, N.M.

Products of the clothing industry. Standartizatsia 2'  
no.10:40 0 '63.  
(MIRA 16:11)



KARNEYEVA, V.Ye., kand.veterinarynkh nauk

Effect on brucellosis of antibiotics and chemotherapeutic drugs  
and their combination in experiments in vitro and in vivo. Trudy  
VIEW 22:286-294 '59. (Brucellosis) (Antibiotics) (MIRA 13:10)

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CIA-RDP86-00513R000720810014-8

KARNEYEVA, V. E., DERYABINA, Z. I. and KAZANSKIY, I. I.

"Gamma-globulines for prophylaxis and treatment of foot-and-mouth and  
Oujeski diseases in animals."

Veterinariya, Vol. 37, No. 7, 1960, p. 35

Karneyeva  
Sci. Sci. Collaborator

All Union Inst. Sup. Vet

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CIA-RDP86-00513R000720810014-8"

KAZANSKIY, I.I., prof.; KARNEYEVA, V.Ye., starshiy nauchnyy sotrudnik;  
DERYABINA, Z.I., kand.biolog.nauk

Gamma globulins used in the prophylaxis and treatment of foot-and-mouth and Aujesky's disease in animals. Veterinariia 37 no.7:35-39 Jl '60.  
(MIRA 16:2)

1. Vsesoyuznyy institut eksperimental'noy veterinarii.  
(Gamma globulin) (Foot-and-mouth disease)  
(Pseudorabies)

KARNEYEVA, V.Ya., kand.veterinarnykh nauk

Preparation of gamma globulins by ammonium sulfate precipitation  
and their testing in experimental brucellosis and Aujeszky's  
disease. Trudy VIEV 26:82-89 '62. (MIRA 16:2)

1. Laboratoriya farmakologii, khimioterapii i toksikologii  
Vsesoyuznogo instituta eksperimental'noy veterinarii.  
(Gamma globulin) (Brucellosis) (Pseudorabies)

KARNEYKIN, S. I., Eng.

Hydraulic Presses

Two hundred-ton hydraulic press for testing building materials for compression.  
Vest. mash. 32, no. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

POLAND/Human and Animal Physiology. Internal Secretion.  
The Pancreas.

T-8

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55860.

Author : Karnibad, Krysztyne.  
Inst :

Title : Differences of Insulin Structure in Animals of Various Species.

Orig Pub: Kosmos (Polska), 1957, A6, No 4, 430-431.

Abstract: No abstract.

Card : 1/1

133

KARNICKA, HALINA

POLAND/Chemical Technology. Chemical Products and Toxins  
APPROVED FOR RELEASE: 06/13/2000 and CIA-RDP86-00513R000720810014-8

H-28

Abs Jour: Referat Zhur-Khimija, No 5, 1958, 16133.

Author : Karnicka Halina  
Inst :

Title : Microflora of Rennet Powder of Domestic Manufacture.

Orig Pub: Przegl. mleczarski, 1956, 4, No 6, 14-17.

Abstract: It was found that rennet of domestic manufacture is contaminated with butyric acid bacteria which drastically reduce its quality. The source of contamination is the raw material, in particular an admixture therein of cow's stomach tissue. Contamination also occurs during the manufacturing process and in storage.

Card : 1/1

L 2250-66 EWP(t)/EWP(b) IJP(c) JD/JG  
ACCESSION NR: AP5017438

PO/0046/65/010/001/0035/0049

AUTHOR: Karniewicz, Wieslawa (Karnevich, V.); Liniecki, Julian (Linetski, Yu.);  
Kosterkiewicz, Andrzej (Kosterkevich, A.)

TITLE: Caesium-137 in population of Lodz in 1963 and 1964

SOURCE: Nukleonika, v. 10, no. 1, 1965, 35-49

TOPIC TAGS: cesium, <sup>21</sup>radioisotope, radiation biologic effect, potassium,  
radiobiology, health

ABSTRACT: The whole-body counter at the Institute of Occupational Medicine in Lodz is described in detail. The in vivo calibration for Cs-137 and for potassium was performed using Cs-132 and K-42 as well as potassium chloride. Details of the calibration procedure are given. Cs-137 body level of adult, professionally non-exposed subjects of both sexes, inhabitants of Lodz was measured four times. In the spring and fall of 1963 and 1964 the Cs-137; potassium ratio was 133, 181, 178, and 200 pC/K, respectively."The authors wish to thank all Colleagues from the staff of the Institute who took part in the calibration of the counter, and Miss Krystyna Misiak for the technical assistance." Orig. art. has: 4 figures, 7 tables, 7 graphs, 3 formulas.

Card 1/2

L 2250-66

ACCESSION NR: AP5017438

ASSOCIATION: Department of Radiological Protection, Institute of Occupational Medicine, Lodz

SUBMITTED: 24Mar64

ENCL: 00

SUB CODE: NP, LS

NR REF SOV: 000

OTHER: 032

NARS

Card

dg  
2/2

LINIECKI, Julian; KARNIEWICZ, Wieslawa

Sr-90 in human bones in Poland; results for 1960 and 1961.  
Nucleonika 8 no.6:401-410 '63. (MIRA 16:12)

1. Department of Radiological Protection, Institute of  
Occupational Medicine, Lodz.

X

27 1220

23895  
P/046/61/006/001/004/005  
D226/D301

AUTHORS: Liniecki, Julian, Czosnowska, Wanda and Karniewicz,  
Wiesława

TITLE: <sup>90</sup>Sr contamination of milk, cattle and human bones  
in Poland in 1959

PERIODICAL: Nukleonika, v. 6, no. 1, 1961, 57-64

TEXT: This is a continuation of an investigation begun in 1958  
(Ref. 1: Liniecki, J., Czosnowska, W and Pietrzak, Z: Nukleonika, 5,  
301 (1960) using the same analytical procedures. Cattle bones were  
sampled both from the lowland districts (Lublin, Warsaw, Danzig,  
Bydgoszcz and Poznań) and the highlands (Zakopane, Limanowa, Jasło  
and Pszczyna) the latter being subject to heavy annual rainfall.  
Powdered milk came from factories situated in the lowlands (Krośniew-  
ice, Siedlce, Rypin, Słupsk and Września) and a few liquid samples  
were collected in the Cracow area. Human bones were obtained from  
the Pathological Anatomy Department and the Children's Hospital of  
the Medical School at Łódź (from the deceased inhabitants of that

Card 1/3

90Sr contamination of milk...

23895  
P/046/61/006/001/004/005  
D226/D301

district) and from the Children's Hospital at Cracow. Anterior parts of vertebrae, femurs and tibias were tested. The 90Sr content of cattle bones for 1959 are tabulated, and a comparison with figures obtained in 1958, for the lowlands cattle is also illustrated. It is shown that the level of contamination is greater in the highland cattle and decreases with increasing age of the animal, although considerable variations were found. The highest results approximated to  $100 \mu\mu\text{c/g Ca}$ , the maximum permissible concentration for human population. Further tests on cattle and sheep are planned. The average 90Sr content in powdered milk samples was  $7.2 \pm 1.0 \mu\mu\text{c/g Ca}$ , the values varying between 3.2 and 14.8, and the corresponding figure for liquid milk was found to be 9.9 (3.6 - 13.3). Seasonal variations of contamination level in milk are shown and future work in this direction is briefly mentioned. Concentrations of 90Sr in human bones show that the 90Sr content is highest in the 0 - 5 age group and decreases with age, becoming fairly constant in persons over 20. This is in agreement with Western work. Results also for the 0 - 20 age groups are similar to those of Western observers, but the 90Sr levels in adult bones are higher than the values measured by Western

Card 2/3

POLAND

LINIECKI, J., KARNAKIEWICZ, W., and SPODENKIEWICZ, T., Institute  
of Occupational Medicine [Original-language version not given].

"On the Dominant Cause of Individual Variation in Cs<sup>137</sup> Body Content"

Warsaw, Nukleonika, Vol 11, No 6, 1966, pp 455-458

Abstract: Approximate values of biological half-life of caesium (long-life component) were calculated from the data on body burden and excretion of Cs<sup>137</sup> in eight young healthy adults, assuming a state of metabolic equilibrium or close to it. Significant correlations between body content and half-life have been found.

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